PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference S1192.70040	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/US2004/002893	International filing date (day/month/year) 02 February 2004 (02.02.2004)	Priority date (day/month/year) 31 January 2003 (31.01.2003)]				
International Patent Classification (IPC) or national classification and IPC ⁷ A61B 17/22, 17/32						
Applicant HYDROCISION INC.						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).									
2.	This REPORT consists of a total of 10 sheets, including this cover sheet.									
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.									
3.	This report contains indications relating to the following items:									
	Box No. I	Basis of the report								
	Box No. II	Priority								
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
	Box No. IV	Lack of unity of invention								
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI	Certain documents cited								
	Box No. VII	Certain defects in the international application								
	Box No. VIII	Certain observations on the international application								
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority								

	Date of issuance of this report 05 August 2005 (05.08.2005)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Becamel
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International application No. International filing date (day/month/year) 31.01.2003 02.02.2004 PCT/US2004/002893 International Patent Classification (IPC) or both national classification and IPC A61B17/22, A61B17/32 Applicant HYDROCISION INC This opinion contains indications relating to the following items: 1. ☑ Box No. I Basis of the opinion ☑ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☑ Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Certain defects in the international application Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer



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	Box_N	lo. I Basis of the opinion					
 With regard to the language, this opinion has been established on the basis of the international application the language in which it was field, unless otherwise indicated under this item. 							
	la	his opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).					
With regard to any nucleotide and/or amino acid sequence disclosed in the international application a necessary to the claimed invention, this opinion has been established on the basis of:							
	a. typ	e of material:					
		a sequence listing					
		table(s) related to the sequence listing					
	b. for	mat of material:					
		in written format					
		in computer readable form					
	c. tim	e of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3		n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4	. Addi	tional comments:					

	Вох	No. II	Priority
1.	\boxtimes	The foll	owing document has not been furnished:
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Consec neverth	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2.		has be	oinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international rate indicated above is considered to be the relevant date.
3.	Add	litional c	observations, if necessary:

		_						
		ox No. III _ Non-establishment of opinion with regard to novelty, inventive step and industrial oplicability						
	The obv	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non vious), or to be industrially applicable have not been examined in respect of:						
		the entire international application	on,					
	\boxtimes	claims Nos. 32, 34-37, 46-58, 6	0, 62	2-70				
	bec	ause:						
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):							
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 32, 34-37, 46-58, 60, 62-70 are so unclear that no meaningful opinion could be formed (specify):							
see separate sheet								
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
		no international search report h	as b	een established for the whole application or for said claims Nos.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided C of the Administrative Instructions in that:							
		the written form		has not been furnished				
				does not comply with the standard				
		the computer readable form		has not been furnished				
				does not comply with the standard				
		the tables related to the nucleo not comply with the technical re	tide a equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.				
		☐ See separate sheet for further details						

	Box No	. IV Lack	of unity of inve	ention					
1.	☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:								
	i	□ paid a	dditional fees.						
	1	□ paid a	dditional fees un	der pro	otest.				
		⊠ not pa	id additional fees	S.					
2.	□ Thi the	s Authority applicant t	found that the resolution for the following	equirer fees.	nent of uni	ity of invention is not complied with and chose not to invite			
3.	This Au	thority con	siders that the re	equiren	nent of unit	ty of invention in accordance with Rule 13.1, 13.2 and 13.3 is			
	□ complied with								
	⊠ not o	complied w	ith for the follow	ne following reasons:					
	sec	e separate	sheet						
4.	Consec	quently, this	report has beer	n estab	olished in re	espect of the following parts of the international application:			
☐ all parts.									
	⊠ the p	☑ the parts relating to claims Nos. 1-4,6,9,15-21,26,27,30-70,86,89,111-113							
	Box No industr	o. V Rea rial applica	soned statemer ability; citations	nt und	er Rule 43 explanatio	Bbis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement			
1.	Statem	ent							
	Novelty	/ (N)		Yes: No:	Claims Claims	1-4,6,9,15-21,26,27,30,31,33,38-45,59,61,86,89,111-113			
	Inventiv	ve step (IS))	Yes: No:	Claims Claims	1-4,6,9,15-21,26,27,30,31,33,38-45,59,61,86,89,111-113			
	Industr	ial applicat	oility (IA)	Yes: No:	Claims Claims	1-4,6,9,15-21,26,27,30,31,33,38-45,59,61,86,89,111-113			
2.	Citation	ns and exp	lanations						
	see se	parate she	eet						

International application No. PCT/US2004/002893

Box No. VII	Certain defects in the international a	applicatio	วท
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The following defects in the form or contents of the international application have been noted:

see separate sheet

Section III

The subject-matter of various searched claims is known from the prior art (cf. V, 2 below). The different combinations of features recited in the remaining searched dependent claims 32, 34-37, 46-58, 60, and 62-70 do not clearly define the matter for which protection is sought (Article 6 PCT) and thus do not allow to identify "the claimed invention" in the sense of Article 33.1 PCT, on which a further opinion should be based.

Section IV

- The International Examining Authority considers that the present International Application does not comply with the requirement of unity of invention (Rule 13 PCT):
- 1.1 The subject-matter of claims 1, 2, 6, 9, 15-21, 26, 27, 86, 89, 111, and 113 is known from D1 and thus not new in the sense of Article 33(2) PCT (see V, 2 below).
- 1.2 Accordingly, potential special features, representing a possible contribution over the prior art, of the claims refer to:

Claims 3, 4, 30-70, 112:

An instrument with a holder having a recessed well

Claims 5, 71-85, 115-138:

An instrument with a ring-shaped nozzle providing component and a method of fabrication thereof

Claims 7, 10-13, 87, 90-92, 94-104, 114:

An instrument with specific dimensions of the flow path

Claims 8, 14, 22-25, 88, 105-110, 139-141

An instrument including an evacuation lumen opposite the nozzle and a method of assembling thereof

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Claims 28, 29:

A kit including the instrument and instructions

Claims 93:

An instrument with a nozzle formed by electrodeposition of metal

The subject-matter of these groups of claims is not so linked as to form a single inventive concept (Rule 13.1 PCT), as there no technical relationship between the corresponding groups of special technical features is apparent.

Section V

1 Reference is made to the following documents (D) cited in the International Search Report:

D1: US-A-6 135 977 (DRASLER WILLIAM J ET AL) 24 October 2000 (2000-10-

24)

D2: US-A-5 135 482 (NERACHER ARNOLD) 4 August 1992 (1992-08-04)

- 2 Novelty (Article 33(2) PCT)
- 2.1 The subject-matter of independent claims 1 and 111 is not new, since document D1 (col. 5, l. 44 to col. 6, l. 26; col. 9, ll. 38-48; fig. 27) discloses a surgical instrument comprising: a nozzle assembly comprising a nozzle-providing component (124) that is shaped to form a liquid jet (122); and a pressure lumen (112) configured and positioned to convey a flow of liquid to the nozzle assembly; wherein the nozzle assembly comprises a holder (168, 170) that is configured to retain and position the nozzle-providing component, and wherein the nozzle-providing component comprises a liquid flow passage having a diameter that continuously decreases along at least a portion of a liquid flow path through the liquid flow passage (fig. 27).
- 2.2 D1 also anticipates a surgical instrument according to independent claims 86 and 113 (in that nozzle 124 is considered to be optically smooth).

- 2.3 D2 shows a surgical instrument and methods as recited in independent claims 1, 30, 59, 86 and 112 (figs. 6-8: optically smooth nozzle-providing component 11, holder 25 with distal recessed well).
- 2.4 Various dependent claims do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty, as they are either known from D1 or D2 (see search report).

Section VII

- 1 Independent apparatus claims should have been drafted in the two-part form in accordance with Rule 6.3(b) PCT.
- The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 3 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in D1 is not mentioned in the description, nor is this document identified therein.
- The units 'inch' and 'psig' employed in the application are not <u>additionally</u> expressed in terms of the units stipulated by Rule 10.1(a) and (b) PCT.
- An incorporation of documents by reference (p. 2, 25) is not possible in some of the Designated States.